

1/18

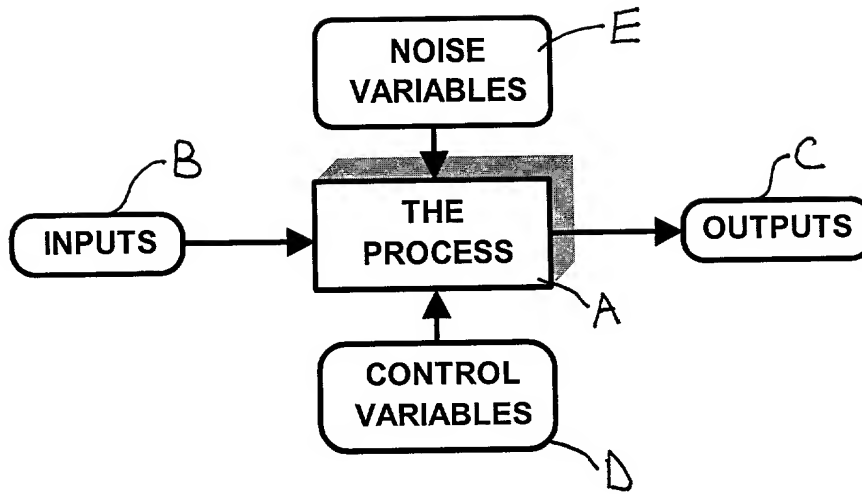


FIG.\_1

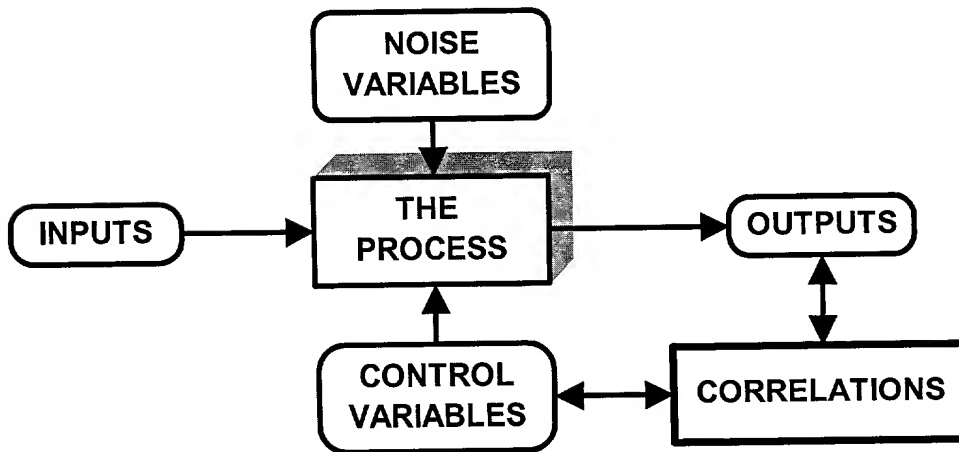


FIG.\_2

2/18

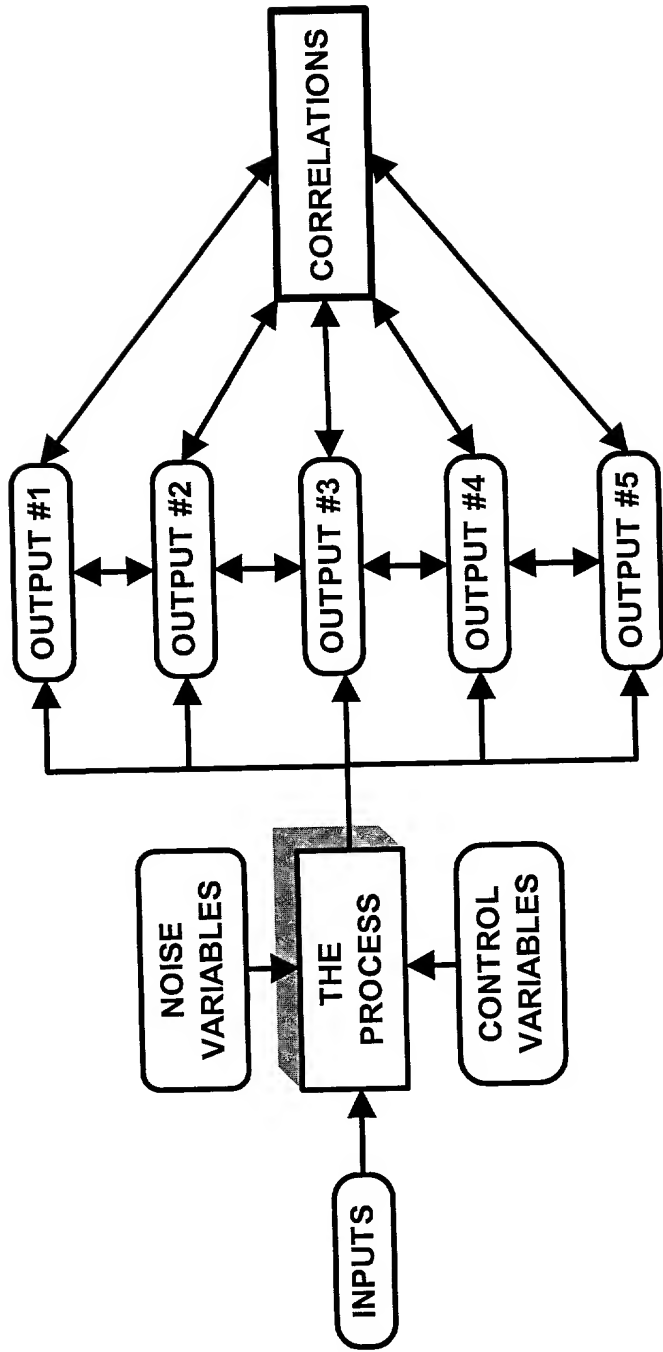


FIG. - 3

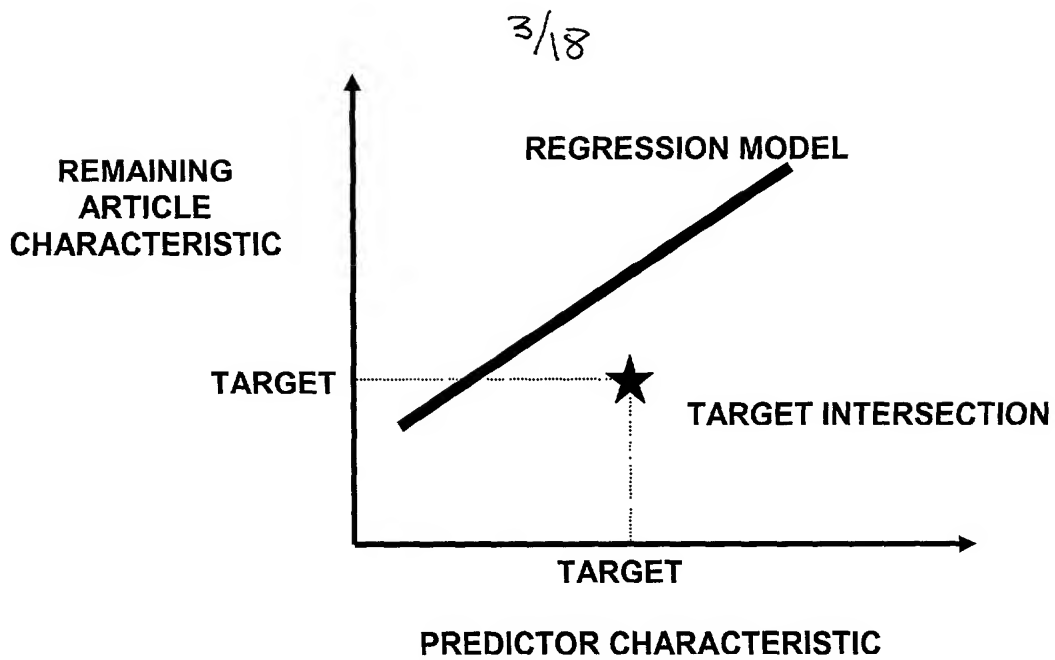
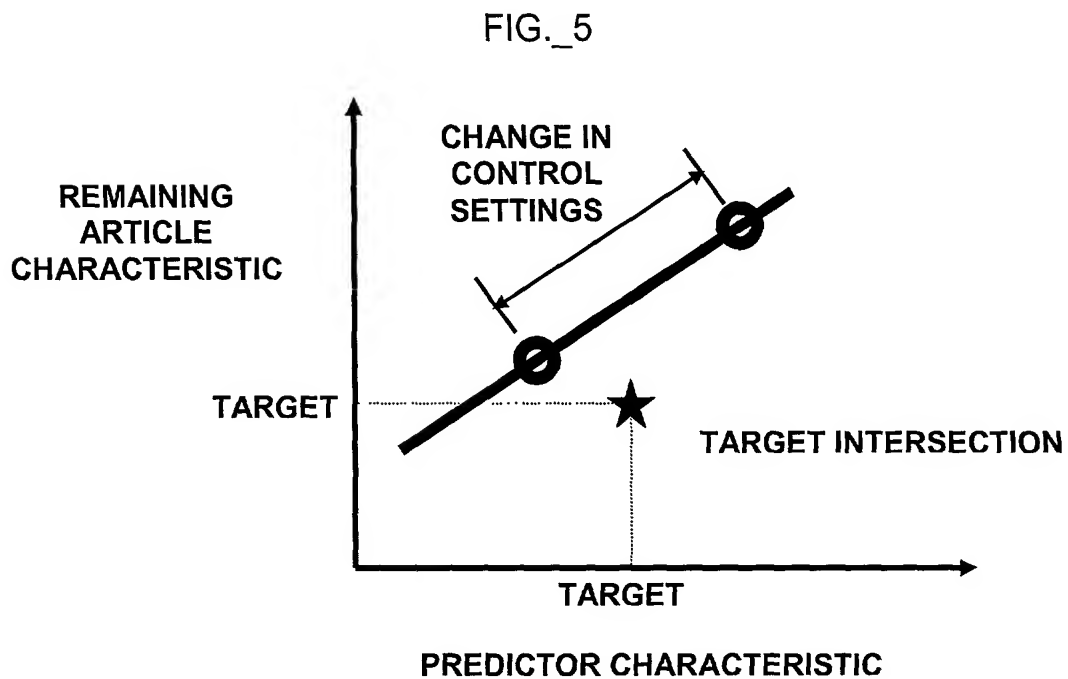


FIG.\_4



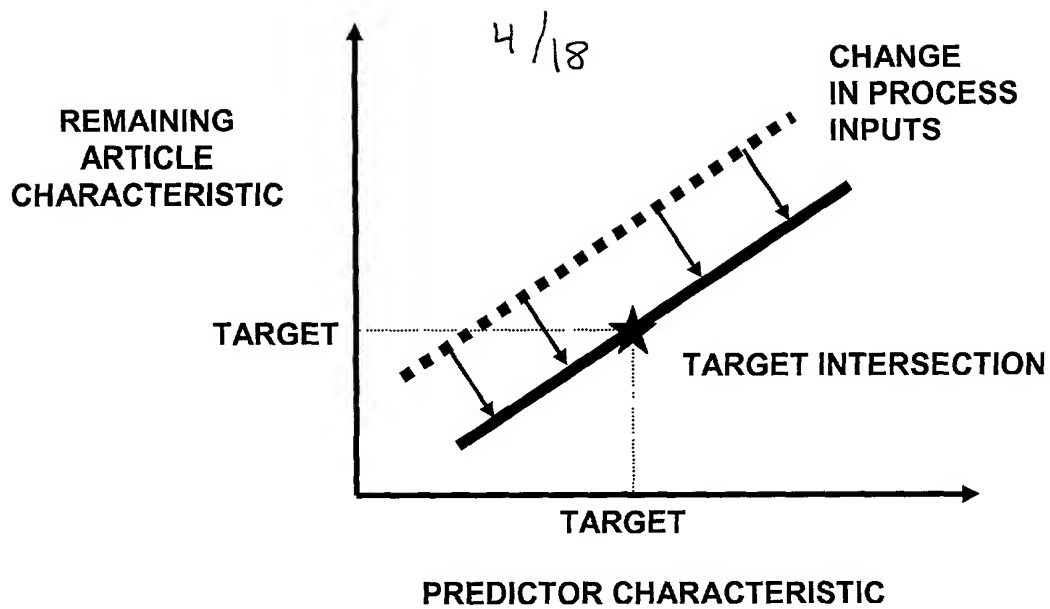
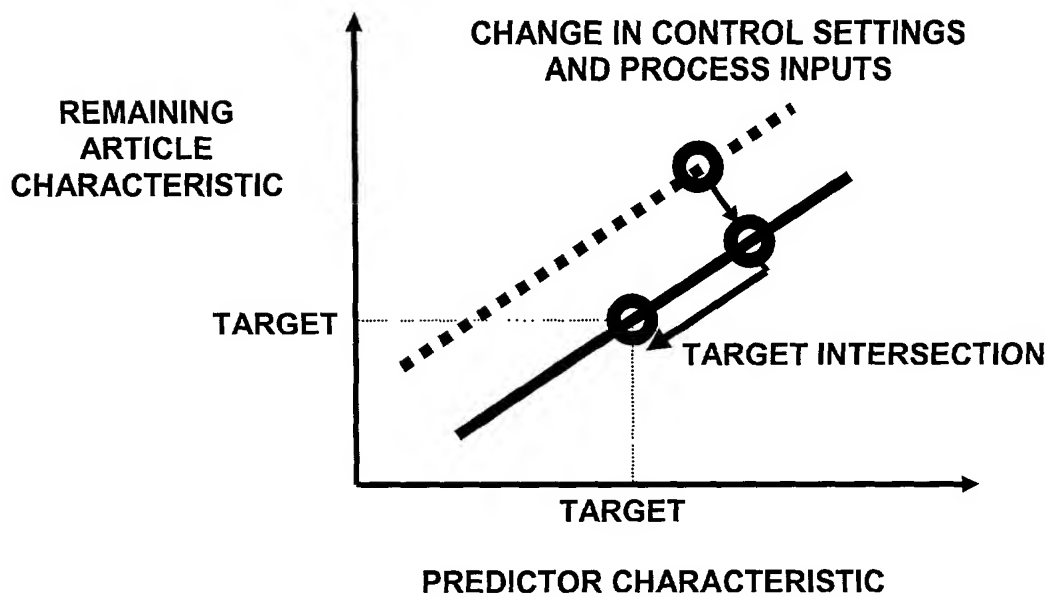


FIG.\_6

FIG.\_7



5/18

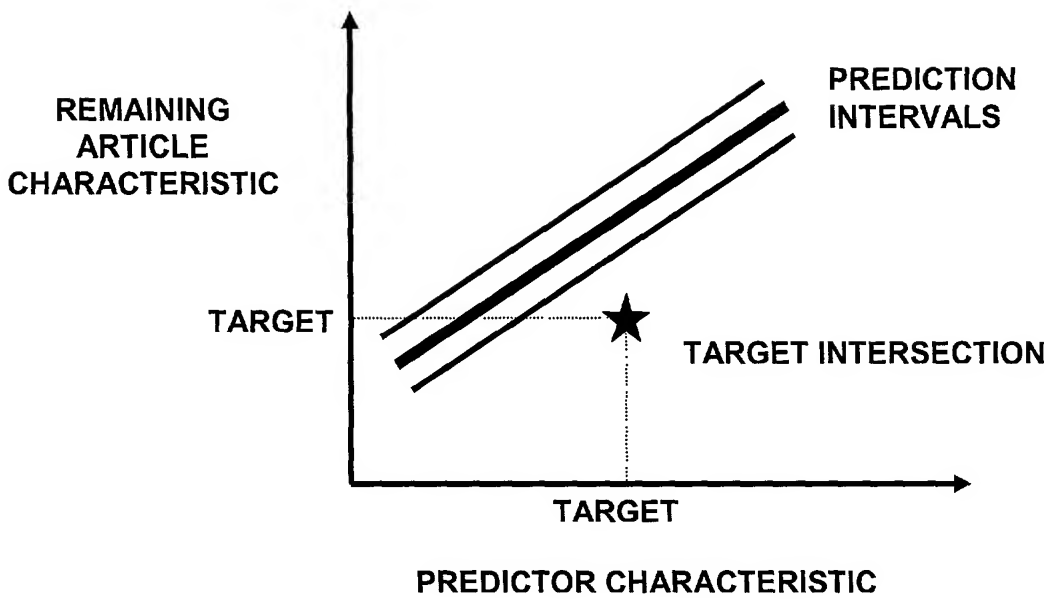


FIG.\_8

Fig. - 9

**Manufacturing Master - [Calculation and Charting Steps]**

File Help

Part 1: Get Input Data    Part 2: Select the Predictor    Part 3: Calculate Statistics    Part 4: Create Charts

1. Use the menu (File|Open) or keyboard (Ctrl+O) commands to open the input database.

2. Enter the number of rows and columns of information on the Excel data sheet including the row and column headers.

Number of rows:     Number of columns:

3. Transfer the data from the Excel data sheet into Manufacturing Master.

4. Select optional data validation methods in addition to checking for blank cells then validate the data.

☐ Absolute    ☐ Relative

Get Data    Validate Data

5. Use the menu commands (File|Save As...) to create a new database for storing all results and charts.

Quit    Continue

7/18

FIG. 10

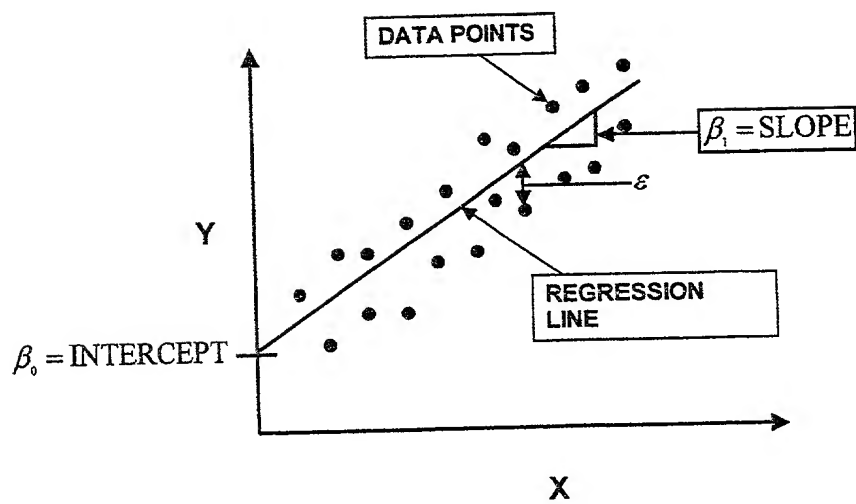
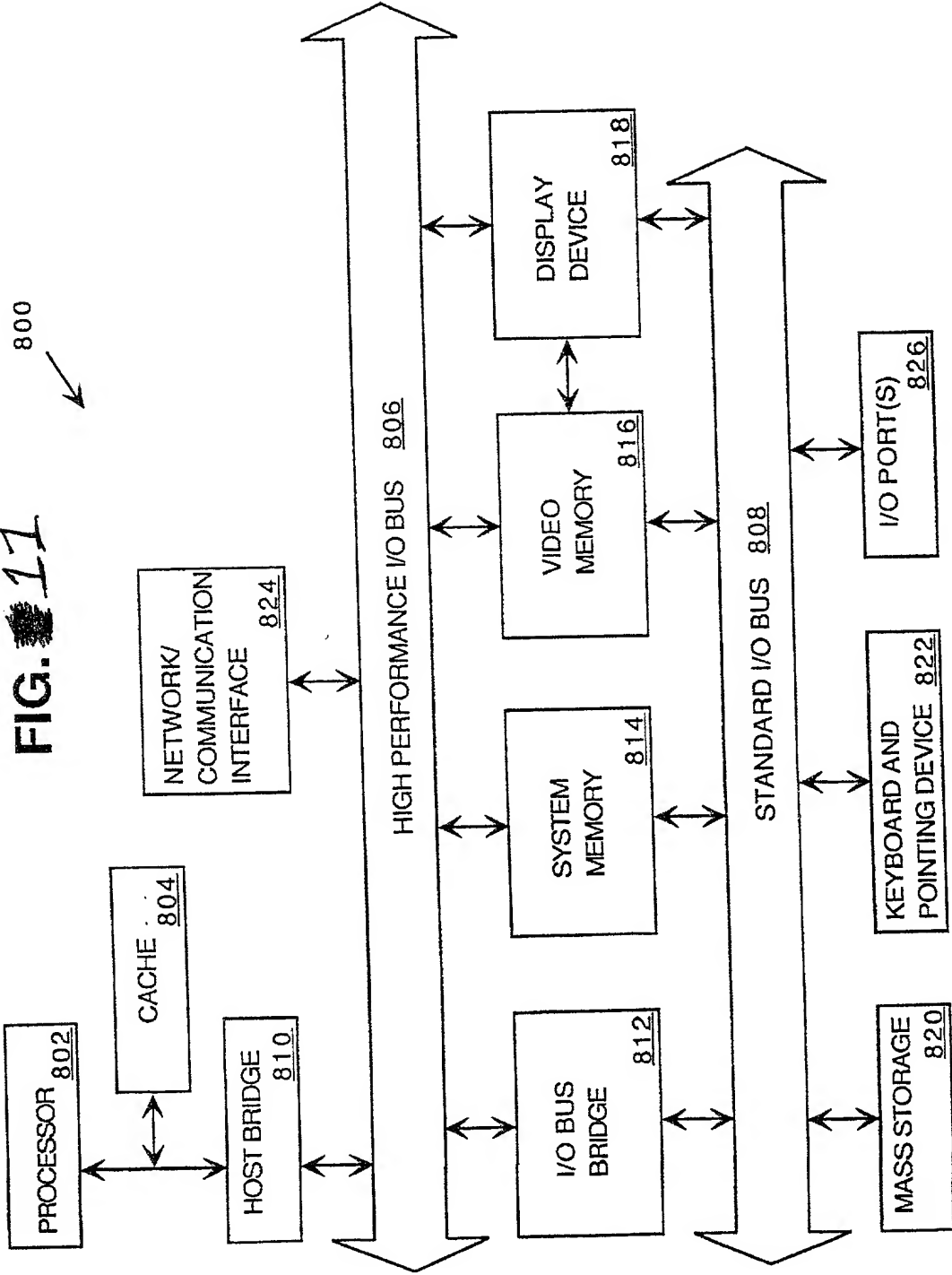


FIG. 11





9/18

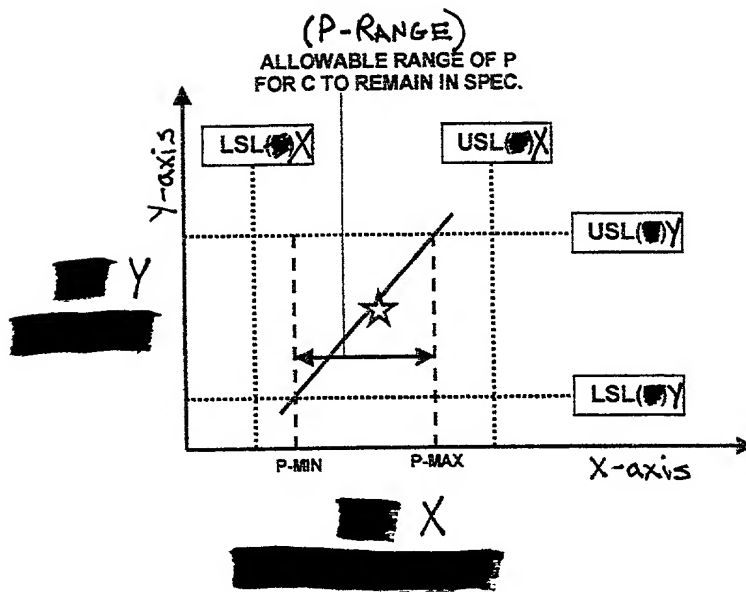


FIG. 12

10/18

201000-000000

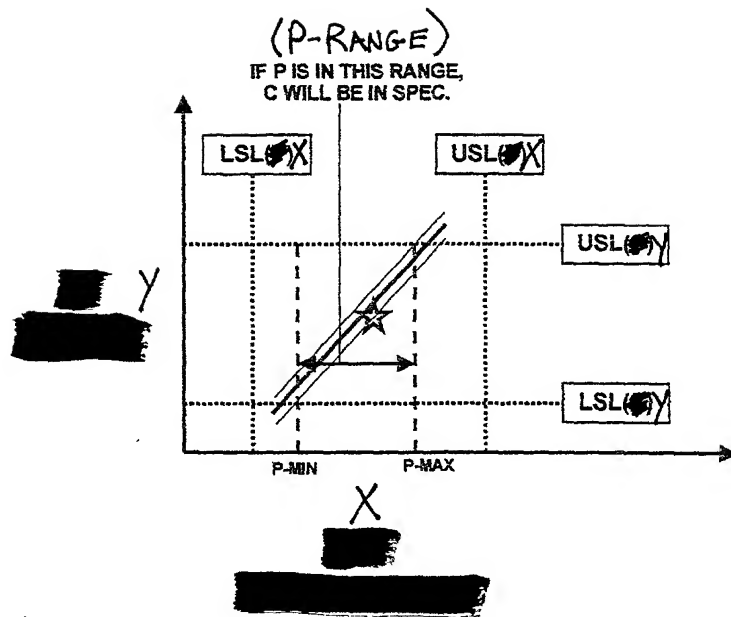


FIG. 13

11/18

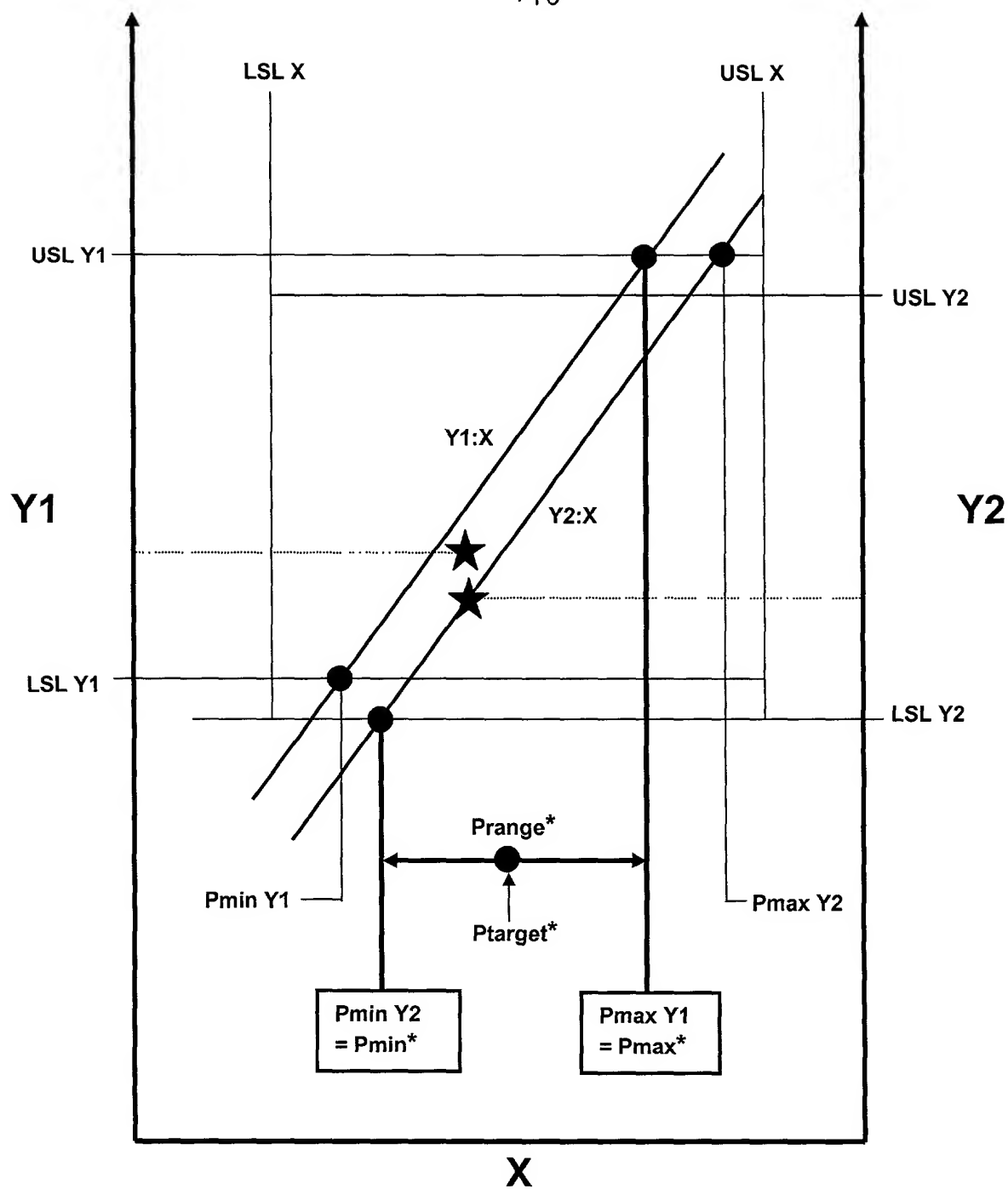


FIG.\_14

12/18

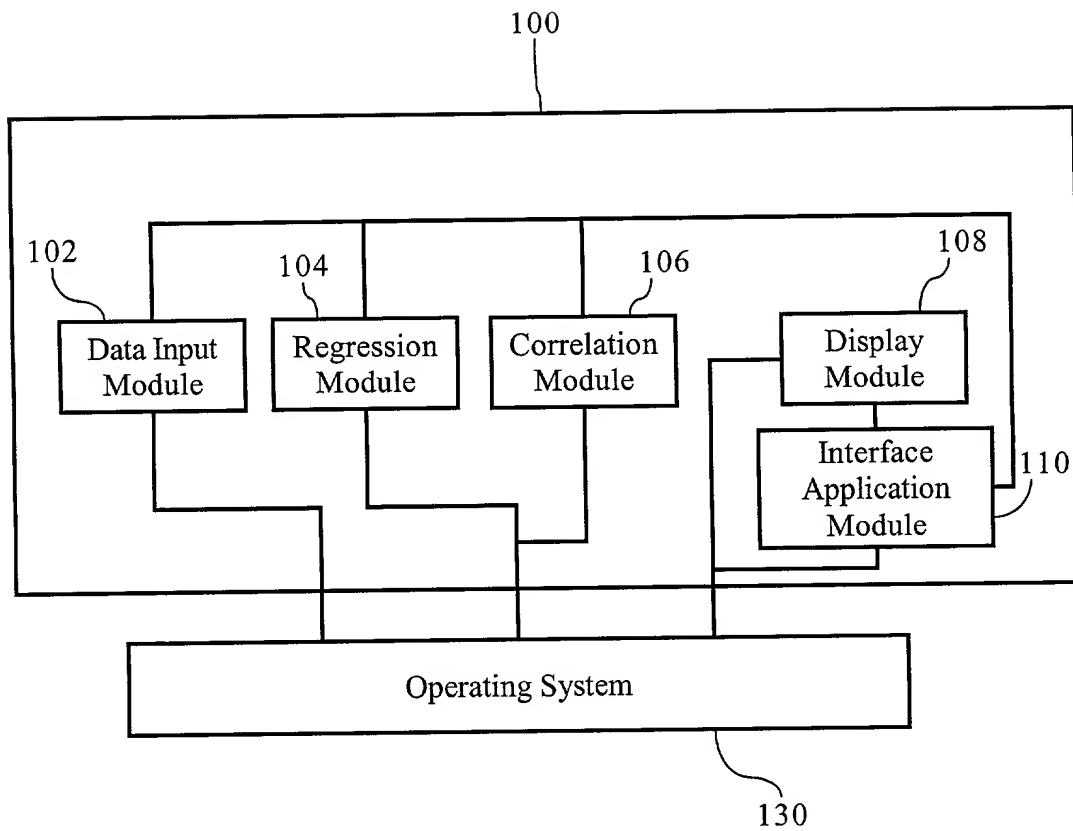


Fig. 15

13/18

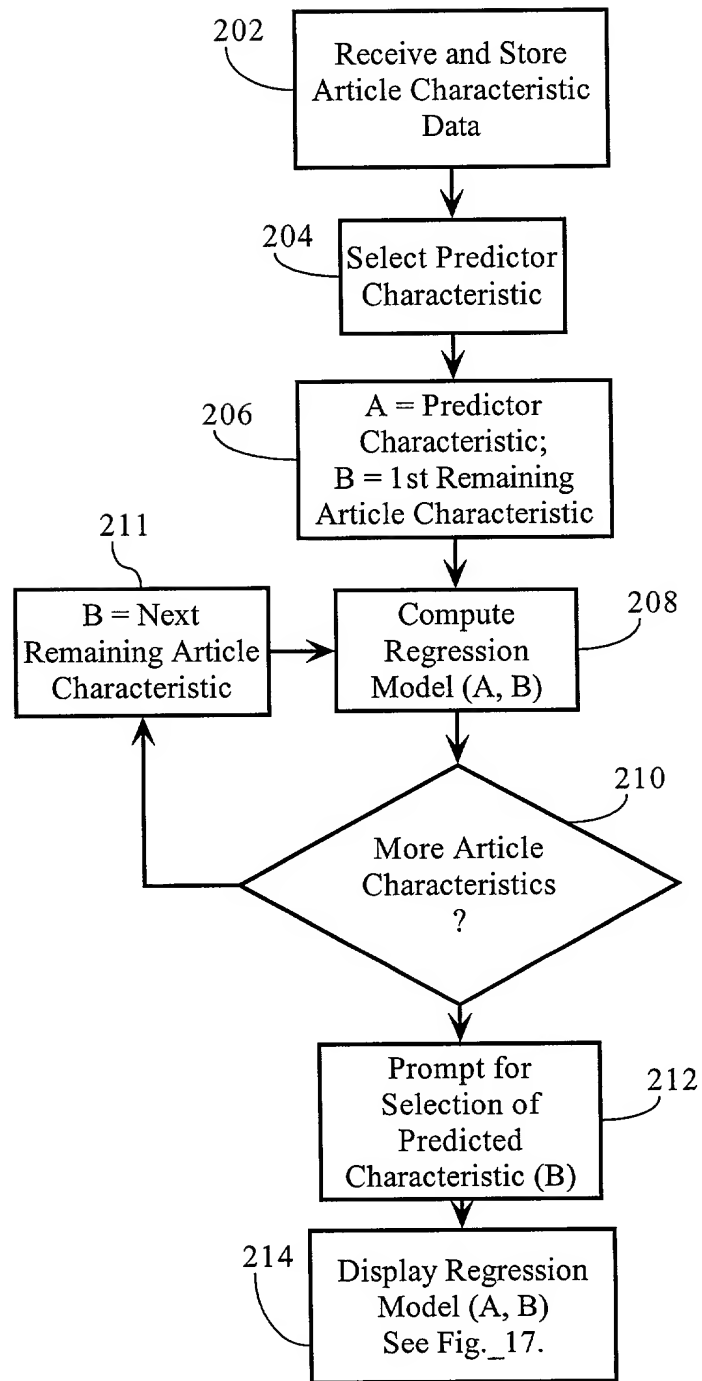


Fig.\_16

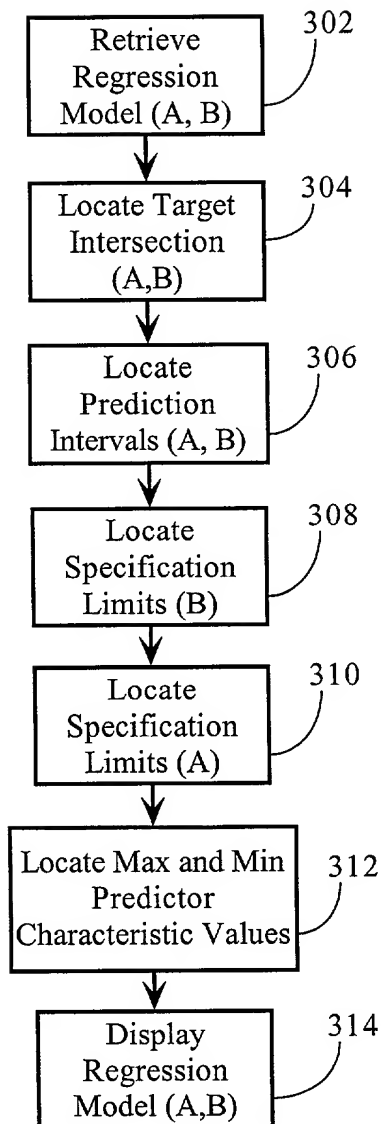


Fig. 17

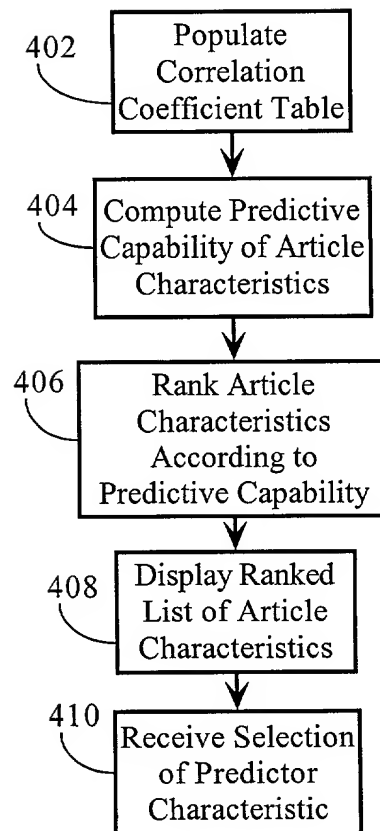


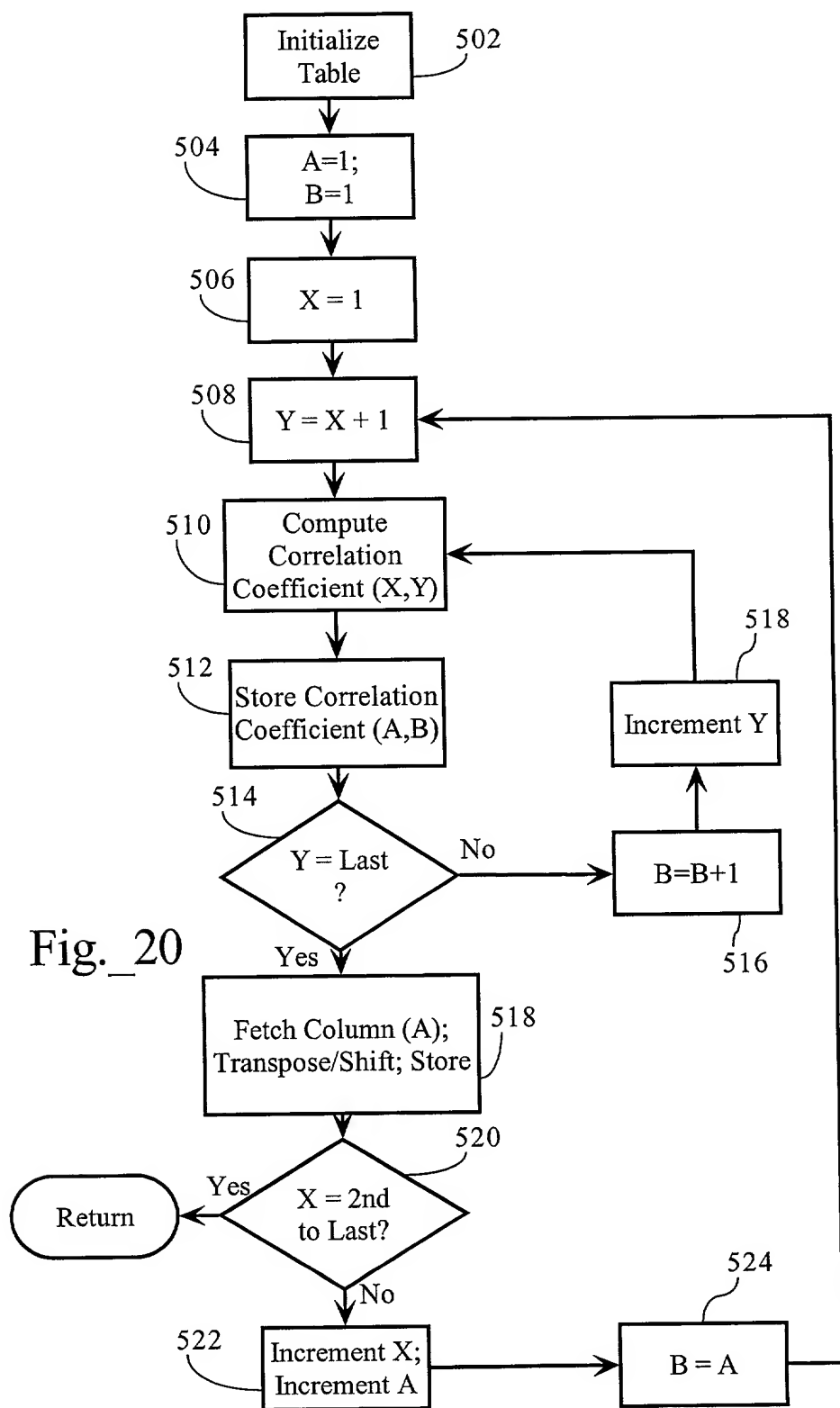
Fig.\_18

15/18

| 1  | 2           | 3        | 4        | 5        | 6        | 7        | 8        |
|----|-------------|----------|----------|----------|----------|----------|----------|
| 2  | Row/Col.    | Var1     | Var2     | Var3     | Var4     | Var5     | Var6     |
| 3  | 1           | 1        | 2        | 3        | 4        | 5        | 6        |
| 4  | 2           | 2        | 2.9      | 3.8      | 4.7      | 5.6      | 7        |
| 5  | 3           | 3        | 4        | 5        | 6        | 7        | 8        |
| 6  | 4           | 4        | 5.1      | 6.2      | 7.3      | 8.4      | 9        |
| 7  | 5           | 5        | 6        | 7        | 8        | 9        | 10       |
| 8  |             |          |          |          |          |          |          |
| 9  | Correlation | 0.999232 | 0.999232 | 0.997054 | 0.993653 | 0.989203 | 1.000000 |
| 10 | Correlation | 0.997054 | 0.999294 | 0.999294 | 0.997298 | 0.994186 | 0.999232 |
| 11 | Correlation | 0.993653 | 0.997298 | 0.999354 | 0.999354 | 0.997530 | 0.997054 |
| 12 | Correlation | 0.989203 | 0.994186 | 0.997530 | 0.999410 | 0.999410 | 0.993653 |
| 13 | Correlation | 1.000000 | 0.999232 | 0.997054 | 0.993653 | 0.989203 | 0.989203 |
| 14 |             |          |          |          |          |          |          |
| 15 | Average     | 0.995829 | 0.997848 | 0.998057 | 0.996673 | 0.993907 | 0.995829 |

Fig.-19

16/18





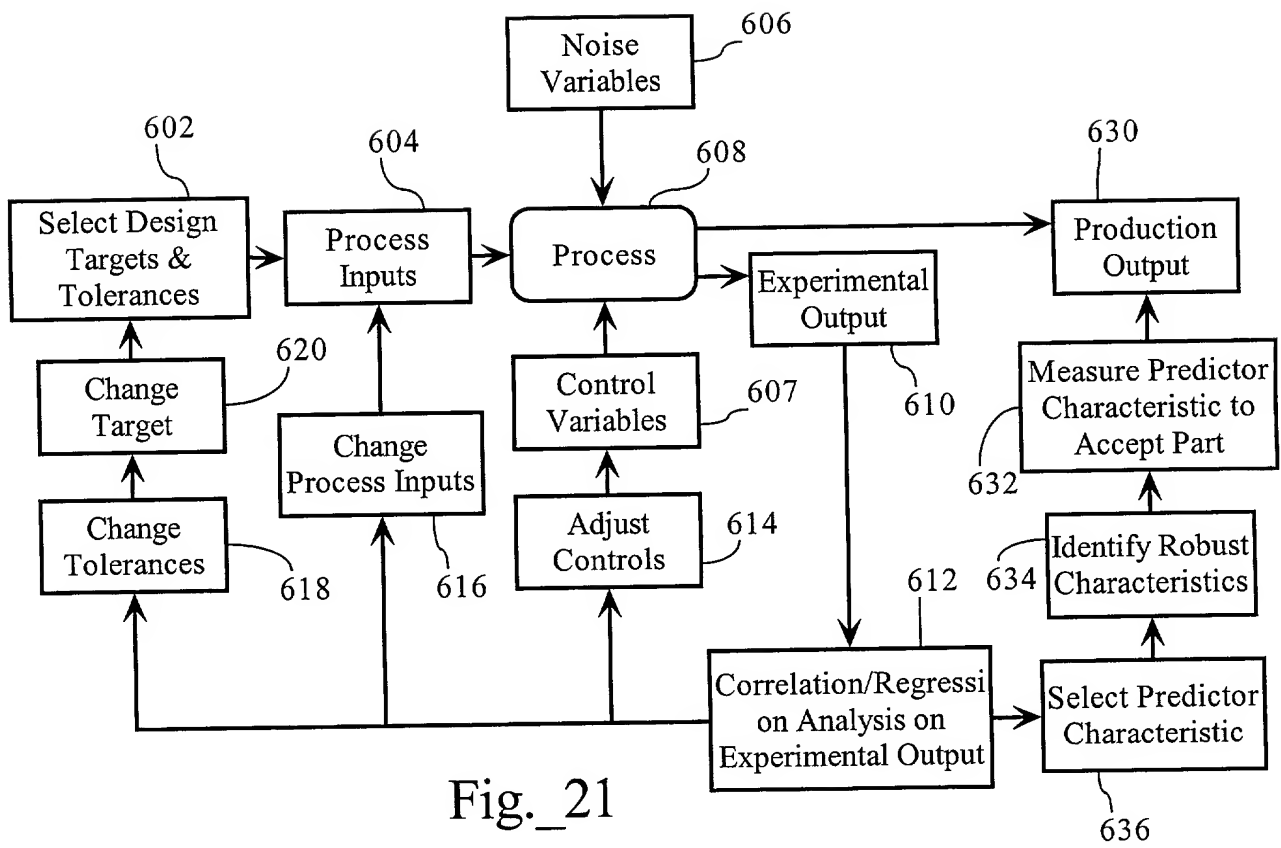


Fig. 21

18/18

| <u>CAVITY</u> | <u>END</u> | <u>DIM.</u> | <u>P-MIN</u> | <u>P-MAX</u> |
|---------------|------------|-------------|--------------|--------------|
| 1             | LONG       | 1.785       | NONE         | 1.932        |
|               |            | 1.925       | 1.924        | 1.934        |
|               |            | 1.970       | NONE         | NONE         |
|               |            | 2.065       | 1.920        | 1.929        |
| 1             | SHORT      | 1.785       | NONE         | NONE         |
|               |            | 1.925       | 1.921        | 1.938        |
|               |            | 1.970       | NONE         | NONE         |
|               |            | 2.065       | NONE         | NONE         |
| 2             | LONG       | 1.785       | NONE         | 1.938        |
|               |            | 1.925       | 1.921        | 1.938        |
|               |            | 1.970       | NONE         | NONE         |
|               |            | 2.065       | NONE         | 1.931        |
| 2             | SHORT      | 1.785       | NONE         | 1.937        |
|               |            | 1.925       | 1.923        | NONE         |
|               |            | 1.970       | NONE         | NONE         |
|               |            | 2.065       | NONE         | NONE         |

FIG.\_22